Rec'd Oct 28'
Ans Nov 7

Albany, N.Y. Oct 23d 1867

Dr. G. Engelmann,

My Dear Sir;

At the suggestion of my friend G. W. Clinton Esq. of Buffalo I enclose to you a little aquatic plant recently detected by me in a pool a few miles west of Albany. Prof. Gray calls it Naias minor var. tenuissima, A. Brown. but with the remark that he depends upon the description alone, having no specmns of that plant with which to compare it. Possibly you may have European specmns. If so you will be able to compare them. If grows

Peck

plentifully in the pool mentioned, and is in the condition you see it in Sept.

I will send also a mere scrap of Atriplex rosea, L. and Amarantus viridis, plants which appear as yet to be mostly limited to Albany, though you may have the latter as specmns have been pretty widely distributed. The former was first detected here this season.

Hoping that the little Nais may not be uninteresting to you and congratulating you upon the success that attends your investigations of difficult genera I am most respty.

Yours very truly

Chas. H. Peck

2 Jay St.

Albany N.Y.

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Rec'd Jan 11th

Albany, N.Y. Jan 4th/68

My Dear Sir;

I thank you much for the specimens of Wolffia columbiana and W. Brasiliensis you so kindly sent me, also for the information concerning them. I inclose at a venture a specimen of Vitella, according to Prof. Gray, but he gives no specific name; says he does not know these things. Thinking that you may possibly have given them some attention I send it.

I shall be pleased

to hear of Prof Braun's
decision concerning the
Naïas when you receive
his reply.

Yours very truly
Chas. H. Peck

Dr. Geo, Engelmann
St, Louis,

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Rec'd Febr 2?
Ans — 3?

Albany, Jan. 29th 1872

My Dear Sir,

Yours of the 26th inst. is at hand. This is the first time you have given me any definite name for the Arceuthobium, and I regret exceedingly the confusion that has arisen in the naming of this unfortunate little fellow. In your first letter to me on this subject you say that you believe this plant to be a new species and if you were "sure it was always so small (you) would call it "minutulum". I afterwards sent more specimens, in one instance, larger ones, and stated that I would like, if possible, to have the plant determined and named, at least provisionally in time for

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my report at the end of the year.
Though you wrote again you gave
me no name for it and I, then,
thinking that perhaps you felt
delicate about naming a plant
discovered by another botanist, and
being obliged to make up my report
in which I wished to notice
the plant, and knowing that the
plant was <u>not</u> <u>always</u> as small
as the specimens were on which
you hesitatingly proposed "minutulum";
I, then, gave it the name <u>pusillum</u>,
and immediately wrote you to that
effect. I have reported it under
that name and distributed specimens
under it, but have published no
description, so that I must now
change not only these names, but
also that — under the circumstances
a mortifying trouble. And now
... to what shall I change it?

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Your first hesitating proposition was "minutulum"; in this letter you say it has been published and distributed under the name "minutum". Is this a slip of the pen or have you changed the former name? Why did you not send me a copy of your published description or at least tell me where it was published? or why did you not tell me at once (upon the receipt of my statement that I had put it in my report under the name "pusillum") that you had already published it under another name? It seems to me frank treatment would have dictated such a course.

My specimens showing the gradation from small plants to mature fruiting plants have been placed in the Herbarium and I do not wish to withdraw

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them, but you may rely on the fact that they exist. I will try to send you such when next I find more. It is a strange fact, but nevertheless one in which I have full belief, that the male and female plants do not grow intermingled, but on separate branches. Certainly in none of my specimens are they intermingled. I will send you a copy of my report when it is published, in which I give the history of the plant so far as I am able to get at it at present. I intend to make further observations on it the coming season.

Very truly Yours
Chas. H. Peck.

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Dr. G. Engelmann
St. Louis.

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Rec. June 15
Ans. July 5

Albany, June 14th 1872

My Dear Sir

I had intended to make a visit to the Arcenthobium locality in May, but a variety of circumstances combined to prevent me until the 12th inst. when I found I was a little too late to find the flowers in good condition. I have, however, been able to settle one or two doubtful points.

1st The two sexes do not occur on the same tree in the Sandlake locality — the only one I have seen. I knew they did not occur on the same branch but was not before certain as to their inhabiting different trees.

2d The staminate plants (the mature

ones) at the time of my visit, June 12th, had nearly all fallen. On one tree which seemed about half dead they had not fallen but appear dry and unhealthy. I send a branch of this. Thus it appears that the female plants endure longer than the males, the former lasting till autumn, the latter falling in spring.

3? The altered appearance of the affected branches is worthy of notice. I saw one tree in which the branches on one side only were attacked. They were more slender, crowded and ascending. The leaves are generally short or dwarfed and altogether the aspect of the tree is so changed that such trees are said to be called "bastard spruce" in some localities.

The remains of the old staminate flowers, show the remnants of the

three sessile anthers changed to a blackish-green color.

The dissemination is yet involved in mystery. I found no seeds adhering to the terminal or last year's shoots which ought next fall to show the little buds just emerging from the bark, neither did I find many adhering to branches any where. Can it be that a seed germinating here and there can send a minute stem creeping through the tissues of the bark and shooting up plants at frequent intervals or that there is a hidden perennial stem in the bark that advances each year from the node below to the one above? I thought I detected little branching root-like extensions from the base of the plant in the bark, but have not determined how far they go nor whether they extend

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between and connect two or more plants.

Very truly Yours
Chas. H. Peck.

Dr. G. Engelmann.

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Rec'd July 1st
Ans. July 5

Albany. June 28th 1872

My Dear Sir.

I inclose a Juncus, J. trifidus I suppose, but if wrong please correct me. The remarkable thing about the specns is that they grew on a dry rock of the Shawangunk Mts. in Ulster county of this State — many miles farther south than it has been observed before and that too at an altitude of only 1200 or 1300 feet. It is much earlier than in the Adirondacks, being in the condition you see it on the 19th of June when I collected it.

Very truly Yours
Chas H. Peck.



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Rec'd July 13th
Ans Aug 9

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Albany July 10th 1872

My Dear Sir,

Yours of the 5th inst. is received. In answer to your inquiry as to the age of the trees attacked by the Arcenthobium I am unable to say. I found it on small trees four or five feet high and on one tree that was at least twenty feet high. Most of the trees on which I observed it were less than ten feet high, but they had such an unthrifty appearance that I should guess their growth had been slow and their age was greater than that of ordinary trees of the same size.

I purposely abstained from

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giving a regular botanical
description of the Arcentholeuin
in my paper before the Albany
Institute because I did not
wish to anticipate your proposed
description in your Monograph.
As Mr. Leggett says in the
Bulletin I think this work
and the naming properly belongs
to you and can best be done
by you. I do not know what
name Prof. Wood has given the plant
nor what his description is, but
if not satisfactory I trust you
will not hesitate to improve
upon it. I put the name
A. pusillum in my report
to the Regents merely as
provisional since you had
not at that time let me
know upon what name you had
decided. I shall be satisfied

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whatever name you use in your Monograph. Probably it would be best, since your name "A. minutum" has been made public in the Bulletin and Naturalist, to adhere to that.

Very truly Yours
Chas. H. Peck

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Rec'd Sept 22
Ans Sept 24

1872 prel. list
71 M. Cards
70 sig. to-do

Forestburgh, Sullivan Co.
N. Y. Sept. 18th 1873

My Dear Sir,

I have just discovered a new station for the Arcenthobium, making the third in this State. It is in the town of Forestburgh, Sullivan County. The plant is in greater abundance than in the Sandlake, Rens. Co. locality, but it is on small spruces in a Sphagnous marsh the same as there. The only new feature I have observed (and it is one of some interest) is that the male and female plants here were observed in two instances to be

on the same tree, though
on different branches of
that tree. I have not yet
seen them on the same branch.
The pertile plants are much the
more numerous. Of more than
a dozen affected trees only
one bore male plants only,
and two bore both male
and female plants. The affected
trees were all small, say from
four to ten feet high, so
that the specimens are easily
obtained while one stands on
the ground. Two trees were
seen which appeared to have
been killed by the parasite
but the appearance may be
deceptive. Generally the affected
trees were not so starved
and unthrifty in appearance

as in the Sandlake locality.
Trees bearing "crows nests" or
dense clumps of branches,
occasioned apparently by some
injury to the leading shoot,
seem to be especially attacked.

I send some specimens
showing the yearly gradation
of plants which you once
desired if I remember rightly.
The locality is much farther
south than those of Warrensburgh
and Sandlake.

Very truly Yours
Chas. H. Peck

Dr. G. Engelmann.

P. S. You will observe that the seeds in
many specimens have been excluded
from the capsules but still remain
attached at the base of it by their viscid coat.

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State Museum

Albany July 20th 1885

My Dear Sir:

I have looked over your doubtful specimens with the following result.

✓ 201½ I once sent this fungus to Cooke who wrote me that he had submitted it to Berkeley and he decided it was Polyporus pergamenus Fr. Recently I understand that Ellis sent specimens of the same thing to Cooke who again submitted these to Berkely who now says they are Polyporus barbatulus Fr. I consider the first determination the better one.

201¾ seems to me a small specimen of the same thing —

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60 I refer to Puccinia Cirsii Lasch

198 Hypoxylon Howeanum Pk an unusual oblong form.

195 Septoria ceraşina Pk.. Ravenel's Septoria Ravenelii is described as having spores 3- to 4-septate.

193 Corticium cinereum. a form once named by Thumen Corticium ruberocanum though a little darker in color than his. is probably the same thing

1/2

1/8 I take to be effete Nummularia clypeus Schw.

82 Nemospora microspora Desm.

208 Does not agree with anything I find described. It is near Septoria Helianthicola C & H but has longer spores at least in part.

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109 as you have it, but I have some doubts if it is distinct

Glaesporium sphæriosum Lib. The name to be Ehrenb.: Fr. Very truly yours

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